Control boards

Model	Printer mechanism	Interface	Number of columns	Font	Command set	Bar-code	Firmware location	Buffer	Supporting devices	Dimensions (W×D)	Source voltage	Custom control chip	Gate array
BD2-2220 	LT2220/ 2221	Parallel, RS-232C and USB	Font A: 32 Font B: 42	Font A: 12×24 dots Font B: 9×24 dots	ESC/ POS	Supported	Flash memory	2K bytes	Auto cutter Paper sensor Head-up sensor LF switch Error LED Paper out LED	75 × 80mm	5.0 ±5%	—	202LA-00
BD2-2221 	LT2320/ 2321	Parallel, RS-232C and USB	Font A: 32 Font B: 42	Font A: 12×24 dots Font B: 9×24 dots	ESC/ POS	Supported	Flash memory	2K bytes	Auto cutter Paper sensor Head-up sensor LF switch Error LED Paper out LED	75 × 80mm	5.0 ±5%	—	202LA-00
BD2-1220/1221 	LT1220/1320/ 1221/1321	Parallel and RS-232C	LT1220/1221 : 32/42 LT1320/1321 : 48/64	Font A: 12×24 dots Font B: 9×24 dots	ESC/ POS	Supported	Flash memory	4K bytes	Auto cutter Paper sensor Head-up sensor LF switch Error LED Paper out LED	90 × 65mm	5V ±5% and 24V ±5%	—	202LA-00
BD2-2860 	LT-286	Parallel and RS-232C	Font A: 32 Font B: 42	Font A: 12×24 dots Font B: 9×24 dots	ESC/ POS	Supported	Masked CPU	2K bytes	Auto cutter Paper sensor Head-up sensor LF switch Error LED Paper out LED	80 × 80mm	5V ±5%	202PC- 04	202LA-00
BD2-2880/2890 	MLT- 288/289	Parallel and RS-232C	Font A: 32 Font B: 42	Font A: 12×24 dots Font B: 9×24 dots	ESC/ POS	Supported	Flash memory	2K bytes	Auto cutter Paper sensor Head-up sensor LF switch Error LED Paper out LED	80 × 75mm	5V ±5%	—	202LA-00
BD2-3880/3890 	MLT- 388/389	Parallel and RS-232C	Font A: 48 Font B: 64	Font A: 12×24 dots Font B: 9×24 dots	ESC/ POS	Supported	Flash memory	2K bytes	Auto cutter Paper sensor Head-up sensor LF switch Error LED Paper out LED	90 × 80mm	5V ±5%	—	202LA-00
BD1-3000 	DP-320/330	Parallel and RS-232C, USB	DP-320: 30 DP-330: 42	7 x 9	ESC/ POS	—	Flash memory	4K/ 40 bytes	Auto cutter Auto winder Paper end sensor Paper near end sensor LED's (Power/Error/On-line) Switches (LF/On-line)	132 x 126mm	5V ±5% and 24V ±5%	—	—

*ESC/POS is a trademark of Seiko Epson Corporation.

Control Chip / Gate Array

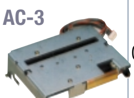
Control Chip

Model	202PC-04
Printer mechanism	LT-286
	

Gate Array

Model	202LA-00 (E104-530A)
Printer mechanism	LT-series
	

Cutters

Model	Cutting Method	Paper width thickness	Max. cutting frequency	Voltage	Current (peak)	Operating temperature	Size	Weight	Reliability	Number of tab left (F)ull cut blade type (P)article cut blade type	Applicable mechanism (cutter model name with mounting bracket and paper guide)
AC-120 	Guillotine	38 — 69mm 0.06—0.09mm	20cuts/min	24V±10%	0.8A	0 — 45˚C	80×57×15mm	130g	300,000cuts	None or 1 tab 2 or 3 tabs	LT1220/2220 (AC-125)
AC-130 	Guillotine	50 — 89mm 0.06—0.09mm	20cuts/min	24V±10%	0.8A	0 — 45˚C	102×57×15mm	160g	300,000cuts	None or 1 tab 2 or 3 tabs	DP-6XX (AC-134) LT1320/2320 (AC-135)
ACS-220 	Slide cutting	45 — 69mm 0.06—0.15mm	20cuts/min	24V±10%	0.8A	0 — 45˚C	80×55.7×15mm	140g	500,000cuts	None None or 1 tab	LT-286 (ACS-224) 5V LT1220/2220 (ACS-225) MLT-288 (ACS-228) 5V LT-281 (ACS-229)
ACS-230 	Slide cutting	50 — 89mm 0.06—0.15mm	20cuts/min	24V±10%	0.8A	0 — 45˚C	102×55.7×15mm	180g	500,000cuts	None None or 1 tab	DP-420/430 (ACS-234) LT1320/2320 (ACS-235) MLT-388 (ACS-238) 5V DP-320/330 (ACS-236)
ACS-240 	Slide cutting	55 — 115mm 0.06—0.13mm	20cuts/min	24V±10%	0.8A	0 — 45˚C	130×55.7×15mm	220g	300,000cuts	None None or 1 tab	LT-481 (ACS-249)
AC-2 	Guillotine	76 ± 0.5mm 0.06—0.085mm	20cuts/min	24V±10%	0.8A	0 — 40˚C	99×74×30mm	200g	300,000cuts	None or 1 tab 2 or 3 tabs	DP-6XX (AC-2)
AC-3 	Guillotine	76 ± 0.5mm 0.06—0.085mm	20cuts/min	12V±10%	1.2A	0 — 40˚C	93×74×25mm	200g	300,000cuts	None or 1 tab 2 or 3 tabs	DP-5XX (AC-3)
AC-4 	Guillotine	49.5 ± 0.5mm 0.063mm	6 cuts/min	24V±10%	1.3A	5 — 40˚C	60×55×23mm	260g	300,000cuts	None or 1 tab several tabs	LT-483 (AC-4)
AC-5 	Guillotine	59.5 ± 0.5mm 0.065mm	6 cuts/min	24V±10%	1.3A	5 — 40˚C	70×55×31.7mm	160g	300,000cuts	None or 1 tab several tabs	LT-281 (AC-5)
AC-6 	Guillotine	111.5 ± 0.5mm 0.065mm	6 cuts/min	24V±10%	1A	5 — 40˚C	130×55×21.5mm	260g	300,000cuts	None or 1 tab several tabs	LT-481 (AC-6)

Accessory Reference Table

Impact Dot Matrix Printer

Model		Complete Printers											Mechanisms									
		CD-S500	CD-S501	CD-S503	iDP3420	iDP3421	iDP3423	iDP3550	iDP3551	CBM-820	CBM-910II	CBM-920II	MD-910 MD-911	DP-320 DP-330	DP-420 DP-430	DP-555	DP-575	DP-61X	DP-65X	DP-62X	DP-630	DP-730
Ribbon	IR-01RB/B															●	●					
	IR-31RB/B	●	●	●										●								
	IR-41RB/B				●	●	●								●							
	IR-61RB/B							●	●									●	●			
	IR-61B																			●	●	
	IR-71B																					●
	IR-82B									●												
	IR-91B										●	●	●									
Cutter	AC-12X																					
	AC-13X								AC-134									AC-134	AC-134	AC-134		
	ACS-22X																					
	ACS-22X (5V)																					
	ACS-23X					ACS-234	ACS-234							ACS-236	ACS-234							
	ACS-23X (5V)																					
	ACS-24X																					
	ACS-53X		ACS-532	ACS-532																		
	AC-2																	●	●			
	AC-3															●	●					
	AC-4																					
	AC-5																					
	AC-6																					
Winder	NW-58															●						
	NW-69																●					
	PW-2																				●	
	AW-2																					
	AW-2FA																	●	●	●		
	AW-3							●	●													
	AW-4																					
	AW-5												●									
	Incorporated			●			●															
Drawer	23XXDR	●	●	●	●	●	●	●	●	●												

Line Termal Printer

Model		Complete Printers										Mechanisms											
		CT-S310	CT-S2000 CT-S2000L	CT-S4000 CT-S4000L	CBM1000II CBM1000IIL	CT-S280	CBM-270L	CBM-262II	CBM-291	CBM-293	CMP-10	LT-286	MLT-288	MLT-388	LT2220	LT2320	LT2221	LT2221C	LT2321	LT2321C	LT-281	LT-481	LT-483
Cutter	AC-12X																						
	AC-13X																						
	ACS-22X							ACS-223	ACS-220	ACS-230											ACS-229		
	ACS-22X (5V)											ACS-224	ACS-228		ACS-225								
	ACS-23X															ACS-235							
	ACS-23X (5V)													ACS-238									
	ACS-24X																					ACS-249	
	ACS-53X	ACS-531		ACS-541																			
	ACS-63X		ACS-631																				
	ACC-230				ACC-230KIT																		
	AC-2																						
	AC-3																						
	AC-4																						●
	AC-5																				●		
	AC-6																					●	
	Incorporated																	●		●			
Winder	NW-58																						
	NW-69																						
	PW-2																						
	AW-2																						
	AW-2FA																						
	AW-3																						
	AW-4																						
	AW-5																						●
Drawer	23XXDR	●	●	●	●			●															



Cash Drawers

- 8 coin drawer
  420(W) × 450(D) × 98(H) mm
- 5 coin drawer
  420(W) × 420(D) × 98(H) mm

Type Classification

23 8 5 E-DR-MS
1) 2) 3) 4) 5)

1) Connector
23 - Modalar (RJ-11)
2) Number of coins
8 or 5
3) Number of bills
5 or 4
4) Key option
E : 3 position key
None : 2 position key
5) Microswitch option
MS: Microswitch equipped
None : No microswitch





Available in black

Customer Display

Type Classification

C2202-PDE-BK
1) 2)

1) Region
E: Europe
A: Australia
2) Body case color
WH: White
BK: Black

Specifications

MODEL	C2202-PD
Display method	Vacuum fluorescent display
Display color	Blue green
Number of character	20 columns x 2 lines
Brightness	700 cd/m2
Character font	5 x 7 dot matrix, comma, decimal point
Character size	9.2 x 5.25 mm
Character pitch	8.3 mm
Code page	PC-437 / 850 / 860 / 863 / 865, Slavonic, Russian, Katakana
Emulation	CBM standard, ESC/POS
Interface	RS-232C (with path through function)
Power supply	12V DC
Power consumption	4.5 W
MTBF	25,000 hours
Dimensions	230(W) x 100(H) x 42(D) mm
Viewing angle	±30 degrees
Rotation angle	Maximum 270 degrees
Weight	0.9 kg
Safety	FCC class B, CE

Included items

- Display unit
- AC adapter
- Base unit
- AC cable
- Short pole
- Long pole
- Interface cable
  (DB25 female - DB9 male)
- User's manual